

Nevada State Water Plan
**Appendix 5 – Nevada and County Water
Withdrawal Forecast Summaries**

TABLE:

Nevada and County Summary — Total Water Use

Municipal and Industrial (M&I) Water Use

Domestic (Residential) Water Use

Public Supply Domestic Water Use

Self Supplied Domestic Water Use

Commercial and Industrial Water Use

Public Use and Losses

Thermoelectric Water Use

Total Mining Water Use

Mining Consumptive (Processing) Water Use

Mining Non-Consumptive (Mining Dewatering) Withdrawals

Total Agricultural Water Use

Irrigation Water Withdrawals

Livestock Water Use

Nevada Estimated and Forecasted Water Use by Sector

Revised:

Estimated (1995) and Forecasted (2000-2020) Water Use (Acre-Foot/Year)

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State/County	1995	2000	2005	2010	2015	2020
Total Nevada						
Total Water Withdrawals (Use)[1]	4,041,385	4,250,474	4,339,289	4,392,604	4,404,012	4,391,150
Total Municipal & Industrial Use[2]	524,861	665,876	789,701	893,593	972,639	1,034,228
Total Domestic (Residential) Use[3]	360,710	455,464	538,090	607,467	660,315	701,338
Domestic--Public Supplied[4]	342,605	434,063	514,277	581,756	633,300	673,563
Domestic--Self Supplied	18,105	21,401	23,813	25,711	27,016	27,775
Commercial and Industrial Use	172,407	220,355	261,880	296,905	323,811	344,919
Public Use and Losses[5]	48,472	61,195	72,313	81,707	88,930	94,582
Thermoelectric Use[6]	65,449	67,085	68,427	69,522	70,412	71,223
Total Mining Use[7]	274,434	278,996	282,708	284,965	283,764	277,566
Mine Processing (consumptive)	89,164	90,947	92,402	93,289	93,469	92,751
Mine Dewatering (nonconsumptive)	185,270	188,049	190,306	191,676	190,296	184,815
Total Agriculture Withdrawals[8]	3,119,914	3,167,378	3,115,872	3,052,038	2,976,780	2,901,522
Irrigation Water Withdrawals	3,113,585	3,160,754	3,109,348	3,045,636	2,970,521	2,895,406
Livestock Water Use	6,329	6,624	6,524	6,402	6,259	6,116
Carson City	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	20,932	19,121	20,273	21,195	21,810	22,084
Total Municipal & Industrial Use[2]	9,342	10,885	12,146	13,226	14,051	14,562
Total Domestic (Residential) Use[3]	7,096	8,262	9,212	10,024	10,641	11,020
Domestic--Public Supplied[4]	6,463	7,533	8,410	9,161	9,736	10,094
Domestic--Self Supplied	633	728	803	863	905	926
Commercial and Industrial Use	2,274	2,601	2,891	3,134	3,316	3,423
Public Use and Losses[5]	840	979	1,092	1,189	1,264	1,310
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	0	0	0	0	0	0
Mine Processing (consumptive)	0	0	0	0	0	0
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	10,721	7,279	7,078	6,847	6,590	6,333
Irrigation Water Withdrawals	10,710	7,271	7,071	6,840	6,583	6,326
Livestock Water Use	11	8	7	7	7	7
Churchill County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	286,299	280,894	280,578	279,893	278,809	277,552
Total Municipal & Industrial Use[2]	3,573	4,329	4,957	5,559	6,106	6,569
Total Domestic (Residential) Use[3]	3,457	4,159	4,730	5,269	5,749	6,142
Domestic--Public Supplied[4]	2,151	2,618	3,013	3,396	3,748	4,051
Domestic--Self Supplied	1,306	1,541	1,718	1,874	2,001	2,091
Commercial and Industrial Use	1,423	1,716	1,975	2,226	2,457	2,656
Public Use and Losses[5]	1,053	1,276	1,461	1,638	1,799	1,936
Thermoelectric Use[6]	22,963	23,537	24,008	24,392	24,704	24,989
Total Mining Use[7]	179	183	186	187	188	186
Mine Processing (consumptive)	179	183	186	187	188	186
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	257,225	250,023	248,219	246,180	243,912	241,644
Irrigation Water Withdrawals	256,553	249,370	247,571	245,537	243,275	241,012
Livestock Water Use	672	653	649	643	637	631

Nevada Estimated and Forecasted Water Use by Sector

Revised:

Estimated (1995) and Forecasted (2000-2020) Water Use (Acre-Feet/Year)

12/3/98

Clark County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	468,353	593,711	705,116	796,686	864,092	915,976
Total Municipal & Industrial Use[2]	379,921	497,297	602,373	688,843	752,578	801,698
Total Domestic (Residential) Use[3]	246,709	322,712	390,636	446,410	487,385	518,845
Domestic--Public Supplied[4]	242,109	317,052	384,217	439,570	480,458	512,048
Domestic--Self Supplied	4,600	5,660	6,418	6,840	6,926	6,797
Commercial and Industrial Use	121,066	160,681	194,748	222,822	243,561	259,588
Public Use and Losses[5]	32,283	42,256	51,185	58,532	63,948	68,122
Thermoelectric Use[6]	25,337	25,970	26,490	26,914	27,258	27,572
Total Mining Use[7]	2,386	2,434	2,473	2,496	2,501	2,482
Mine Processing (consumptive)	2,386	2,434	2,473	2,496	2,501	2,482
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	40,572	39,658	39,585	39,512	39,439	39,366
Irrigation Water Withdrawals	40,292	39,384	39,312	39,239	39,167	39,095
Livestock Water Use	280	274	273	273	272	272
Douglas County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	203,955	202,625	201,683	200,139	197,942	195,483
Total Municipal & Industrial Use[2]	11,078	13,240	14,908	16,502	17,955	19,201
Total Domestic (Residential) Use[3]	10,513	12,552	14,120	15,615	16,973	18,134
Domestic--Public Supplied[4]	9,566	11,434	12,877	14,256	15,514	16,594
Domestic--Self Supplied	947	1,118	1,243	1,358	1,459	1,540
Commercial and Industrial Use	3,293	3,606	4,041	4,453	4,822	5,133
Public Use and Losses[5]	347	415	467	517	563	602
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	0	0	0	0	0	0
Mine Processing (consumptive)	0	0	0	0	0	0
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	189,802	186,052	183,054	179,555	175,585	171,614
Irrigation Water Withdrawals	189,544	185,799	182,805	179,311	175,346	171,381
Livestock Water Use	258	253	248	244	238	233
Elko County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	936,593	941,310	932,063	919,146	902,557	885,190
Total Municipal & Industrial Use[2]	14,920	17,922	20,088	21,972	23,447	24,410
Total Domestic (Residential) Use[3]	11,595	13,917	15,587	17,034	18,164	18,895
Domestic--Public Supplied[4]	10,888	13,083	14,669	16,050	17,134	17,843
Domestic--Self Supplied	707	834	917	984	1,030	1,051
Commercial and Industrial Use	7,942	9,514	10,782	11,859	12,700	13,261
Public Use and Losses[5]	1,355	1,628	1,824	1,995	2,129	2,217
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	5,354	5,461	5,548	5,602	5,612	5,569
Mine Processing (consumptive)	5,354	5,461	5,548	5,602	5,612	5,569
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	910,347	910,790	898,321	882,655	863,951	845,248
Irrigation Water Withdrawals	908,645	909,087	896,641	881,004	862,335	843,667
Livestock Water Use	1,703	1,703	1,680	1,651	1,616	1,581

Nevada Estimated and Forecasted Water Use by Sector

Revised:

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Esmeralda County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	62,809	60,864	60,379	59,467	58,131	56,666
Total Municipal & Industrial Use[2]	302	275	280	285	287	289
Total Domestic (Residential) Use[3]	297	270	275	279	281	282
Domestic--Public Supplied[4]	213	194	197	200	203	204
Domestic--Self Supplied	84	76	77	78	79	79
Commercial and Industrial Use	45	48	50	51	51	52
Public Use and Losses[5]	45	41	42	42	43	43
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	12,613	12,865	13,071	13,197	13,222	13,120
Mine Processing (consumptive)	12,613	12,865	13,071	13,197	13,222	13,120
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	49,810	47,640	46,942	45,899	44,534	43,169
Irrigation Water Withdrawals	49,687	47,522	46,826	45,786	44,424	43,062
Livestock Water Use	123	118	116	114	110	107
Eureka County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	244,422	266,445	266,116	264,464	260,570	254,354
Total Municipal & Industrial Use[2]	426	479	527	566	592	604
Total Domestic (Residential) Use[3]	425	478	525	563	589	601
Domestic--Public Supplied[4]	325	366	402	432	452	462
Domestic--Self Supplied	100	112	123	131	137	139
Commercial and Industrial Use	67	109	186	232	276	315
Public Use and Losses[5]	34	38	42	45	47	48
Thermoelectric Use[6]	4,637	4,753	4,848	4,926	4,989	5,046
Total Mining Use[7]	114,243	116,053	117,524	118,418	117,749	114,783
Mine Processing (consumptive)	19,222	19,606	19,920	20,111	20,150	19,995
Mine Dewatering (nonconsumptive)	95,021	96,446	97,604	98,306	97,599	94,788
Total Agriculture Withdrawals[8]	125,016	145,015	142,991	140,281	136,921	133,561
Irrigation Water Withdrawals	124,859	144,833	142,812	140,105	136,749	133,394
Livestock Water Use	157	182	179	176	172	168
Humboldt County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	686,584	699,031	686,501	669,042	646,369	621,976
Total Municipal & Industrial Use[2]	4,201	4,883	5,440	5,917	6,284	6,513
Total Domestic (Residential) Use[3]	4,454	5,174	5,759	6,259	6,641	6,878
Domestic--Public Supplied[4]	3,047	3,543	3,949	4,297	4,564	4,733
Domestic--Self Supplied	1,407	1,630	1,810	1,962	2,077	2,145
Commercial and Industrial Use	1,411	1,755	2,055	2,345	2,606	2,822
Public Use and Losses[5]	381	443	493	537	570	591
Thermoelectric Use[6]	3,226	3,307	3,373	3,427	3,471	3,511
Total Mining Use[7]	76,640	77,865	78,861	79,466	79,038	77,095
Mine Processing (consumptive)	15,077	15,379	15,625	15,775	15,805	15,683
Mine Dewatering (nonconsumptive)	61,563	62,486	63,236	63,692	63,233	61,412
Total Agriculture Withdrawals[8]	600,472	610,488	595,959	577,009	554,044	531,080
Irrigation Water Withdrawals	599,845	609,851	595,337	576,406	553,466	530,525
Livestock Water Use	627	638	623	603	579	555

Nevada Estimated and Forecasted Water Use by Sector

Revised:

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12/3/98

Lander County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	198,983	192,403	191,009	188,907	185,825	182,025
Total Municipal & Industrial Use[2]	1,423	1,598	1,661	1,710	1,742	1,758
Total Domestic (Residential) Use[3]	1,353	1,518	1,577	1,622	1,651	1,665
Domestic--Public Supplied[4]	1,109	1,246	1,296	1,334	1,360	1,372
Domestic--Self Supplied	244	272	281	288	292	292
Commercial and Industrial Use	146	156	166	174	182	187
Public Use and Losses[5]	168	189	196	202	206	208
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	35,598	36,170	36,635	36,917	36,723	35,833
Mine Processing (consumptive)	7,550	7,701	7,824	7,899	7,914	7,854
Mine Dewatering (nonconsumptive)	28,048	28,469	28,810	29,018	28,809	27,979
Total Agriculture Withdrawals[8]	161,718	154,370	152,436	149,992	147,063	144,133
Irrigation Water Withdrawals	161,382	154,050	152,119	149,680	146,757	143,833
Livestock Water Use	336	321	317	312	306	300
Lincoln County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	67,516	66,884	66,642	66,230	65,651	65,063
Total Municipal & Industrial Use[2]	1,550	1,573	1,604	1,628	1,645	1,653
Total Domestic (Residential) Use[3]	1,355	1,374	1,400	1,420	1,433	1,439
Domestic--Public Supplied[4]	1,082	1,098	1,121	1,138	1,150	1,156
Domestic--Self Supplied	273	276	280	282	283	283
Commercial and Industrial Use	364	349	352	352	351	349
Public Use and Losses[5]	138	140	143	145	146	147
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	0	0	0	0	0	0
Mine Processing (consumptive)	0	0	0	0	0	0
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	65,660	65,021	64,747	64,313	63,720	63,128
Irrigation Water Withdrawals	65,537	64,899	64,626	64,192	63,601	63,010
Livestock Water Use	123	122	121	120	119	118
Lyon County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	325,076	330,054	329,601	328,640	327,027	325,002
Total Municipal & Industrial Use[2]	5,746	7,296	8,527	9,727	10,827	11,760
Total Domestic (Residential) Use[3]	4,171	5,293	6,181	7,045	7,837	8,506
Domestic--Public Supplied[4]	3,853	4,895	5,723	6,530	7,272	7,902
Domestic--Self Supplied	318	398	458	515	564	604
Commercial and Industrial Use	8,894	10,758	12,604	14,412	16,082	17,510
Public Use and Losses[5]	672	853	997	1,138	1,266	1,375
Thermoelectric Use[6]	1,400	1,435	1,464	1,487	1,506	1,524
Total Mining Use[7]	2,565	2,616	2,658	2,684	2,689	2,668
Mine Processing (consumptive)	2,565	2,616	2,658	2,684	2,689	2,668
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	307,374	309,100	305,698	301,875	297,647	293,419
Irrigation Water Withdrawals	306,926	308,649	305,252	301,435	297,213	292,991
Livestock Water Use	448	451	446	440	434	428

Nevada Estimated and Forecasted Water Use by Sector

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12/3/98

Mineral County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	19,713	31,196	30,667	29,929	28,992	28,022
Total Municipal & Industrial Use[2]	1,255	1,303	1,329	1,348	1,361	1,366
Total Domestic (Residential) Use[3]	1,153	1,197	1,219	1,236	1,246	1,250
Domestic--Public Supplied[4]	930	966	986	1,000	1,010	1,014
Domestic--Self Supplied	223	230	234	236	236	236
Commercial and Industrial Use	280	266	265	263	259	254
Public Use and Losses[5]	45	47	47	48	49	49
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	2,520	2,570	2,612	2,637	2,642	2,621
Mine Processing (consumptive)	2,520	2,570	2,612	2,637	2,642	2,621
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	15,716	27,117	26,524	25,746	24,797	23,848
Irrigation Water Withdrawals	15,682	27,059	26,467	25,691	24,744	23,797
Livestock Water Use	34	58	57	55	53	51
Nye County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	76,615	101,291	102,073	102,507	102,457	101,958
Total Municipal & Industrial Use[2]	6,127	8,203	9,634	10,975	12,128	12,995
Total Domestic (Residential) Use[3]	5,785	7,740	9,083	10,340	11,417	12,225
Domestic--Public Supplied[4]	4,077	5,461	6,416	7,313	8,084	8,666
Domestic--Self Supplied	1,708	2,279	2,667	3,027	3,333	3,559
Commercial and Industrial Use	784	893	1,063	1,226	1,372	1,488
Public Use and Losses[5]	1,378	1,845	2,166	2,468	2,727	2,922
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	7,695	7,846	7,969	8,044	8,053	7,977
Mine Processing (consumptive)	7,057	7,198	7,313	7,384	7,398	7,341
Mine Dewatering (nonconsumptive)	638	648	655	660	655	636
Total Agriculture Withdrawals[8]	60,973	82,968	81,792	80,429	78,888	77,347
Irrigation Water Withdrawals	60,233	81,962	80,801	79,454	77,931	76,409
Livestock Water Use	739	1,006	992	975	957	938
Pershing County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	121,216	129,257	126,831	123,860	120,366	116,780
Total Municipal & Industrial Use[2]	1,736	2,390	2,631	2,831	2,975	3,054
Total Domestic (Residential) Use[3]	1,342	1,845	2,030	2,183	2,292	2,351
Domestic--Public Supplied[4]	1,199	1,650	1,818	1,957	2,057	2,112
Domestic--Self Supplied	143	195	212	226	235	239
Commercial and Industrial Use	414	531	601	664	716	754
Public Use and Losses[5]	134	185	204	219	230	236
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	2,106	2,148	2,182	2,203	2,208	2,191
Mine Processing (consumptive)	2,106	2,148	2,182	2,203	2,208	2,191
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	117,220	124,548	121,814	118,591	114,919	111,248
Irrigation Water Withdrawals	116,962	124,275	121,546	118,330	114,667	111,004
Livestock Water Use	258	274	268	261	253	245

Nevada Estimated and Forecasted Water Use by Sector

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12/3/98

Storey County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	3,533	3,470	3,562	3,638	3,698	3,742
Total Municipal & Industrial Use[2]	325	383	424	460	489	510
Total Domestic (Residential) Use[3]	340	401	443	480	510	532
Domestic--Public Supplied[4]	224	264	293	318	338	352
Domestic--Self Supplied	116	136	150	163	173	179
Commercial and Industrial Use	67	98	110	121	131	139
Public Use and Losses[5]	34	40	44	48	51	53
Thermoelectric Use[6]	1,826	1,872	1,909	1,940	1,964	1,987
Total Mining Use[7]	258	263	267	270	270	268
Mine Processing (consumptive)	258	263	267	270	270	268
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	1,008	797	789	780	771	763
Irrigation Water Withdrawals	1,008	797	789	780	771	763
Livestock Water Use	0	0	0	0	0	0
Washoe County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	218,983	225,228	230,998	235,595	238,823	240,931
Total Municipal & Industrial Use[2]	79,385	89,816	98,971	107,699	115,733	122,808
Total Domestic (Residential) Use[3]	57,382	64,876	71,438	77,683	83,419	88,455
Domestic--Public Supplied[4]	52,322	59,222	65,287	71,075	76,409	81,114
Domestic--Self Supplied	5,060	5,654	6,151	6,608	7,010	7,341
Commercial and Industrial Use	23,691	27,050	29,757	32,327	34,681	36,739
Public Use and Losses[5]	9,308	10,532	11,605	12,629	13,571	14,400
Thermoelectric Use[6]	6,060	6,212	6,336	6,437	6,519	6,595
Total Mining Use[7]	717	731	743	750	752	746
Mine Processing (consumptive)	717	731	743	750	752	746
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	121,824	115,828	111,119	105,769	99,882	93,996
Irrigation Water Withdrawals	121,533	115,551	110,853	105,516	99,644	93,772
Livestock Water Use	291	277	266	253	239	225
White Pine County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)[1]	99,803	106,689	105,196	103,265	100,893	98,345
Total Municipal & Industrial Use[2]	3,551	4,005	4,198	4,345	4,439	4,477
Total Domestic (Residential) Use[3]	3,283	3,699	3,874	4,006	4,089	4,119
Domestic--Public Supplied[4]	3,047	3,437	3,604	3,730	3,812	3,845
Domestic--Self Supplied	236	262	270	275	277	274
Commercial and Industrial Use	246	224	235	244	248	250
Public Use and Losses[5]	258	291	305	315	322	325
Thermoelectric Use[6]	0	0	0	0	0	0
Total Mining Use[7]	11,560	11,791	11,980	12,095	12,118	12,025
Mine Processing (consumptive)	11,560	11,791	11,980	12,095	12,118	12,025
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals[8]	84,456	90,684	88,803	86,605	84,115	81,626
Irrigation Water Withdrawals	84,187	90,395	88,520	86,329	83,848	81,366
Livestock Water Use	269	289	283	276	268	260

Notes: "Water Use" and "Water Withdrawals" are equivalent terms, but are not the same as consumptive use; do not account for return flows.

[1] Total Water Withdrawals are equal to Total Domestic Use plus Commercial and Industrial Use plus Public Use and Losses plus

Thermoelectric Use plus Total Mining Use plus Total Agriculture Withdrawals.

[2] Total Municipal & Industrial (M&I) Use equals public supplied water for domestic, commercial, industrial, and thermoelectric uses.

[3] Total Domestic Use equals the total residential use, both indoors and outdoors (i.e., residential landscaping).

[4] Domestic Public Supplied water use is residential use of water supplied by public supply water systems.

Nevada Estimated and Forecasted Water Use by Sector

Revised:

Estimated (1995) and Forecasted (2000-2020) Water Use (Acre-Feet/Year)

12/3/98

[5] Public Use and Losses is forecasted as a percent of total M&I water use based on historical trends.

[6] Thermoelectric Use includes water used for geothermal power plants and cooling water for conventional plants.

[7] Total Mining Use includes both consumptive and non-consumptive uses (i.e., mining dewatering).

[8] Total Agriculture Withdrawals includes both irrigation and livestock water use.

Sources: Nevada State Demographer; Nevada Department of Employment, Training and Rehabilitation (DETR); U.S. Geological Survey (USGS); and Nevada Division of Water Planning (NDWP); Irrigated acreage and 1995 irrigation water withdrawals based on USGS estimates modified by NDWP; Forecasts through 2020 based on 1995 usage rates and NDWP forecasts of population, employment, business conditions and estimated irrigated acreage. Livestock water use based on a constant percent of irrigation water use,